

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number
WO 2004/087156 A1

(51) International Patent Classification⁷: **A61K 31/451**,
C07D 211/24, 407/12, A61P 25/00

Roskilde (DK). BRYAN, STENSBOJ, Tine [DK/DK];
Evavej 21, DK-3500 Værløse (DK).

(21) International Application Number:
PCT/DK2004/000244

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 2 April 2004 (02.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA200300520 4 April 2003 (04.04.2003) DK
60/460,528 4 April 2003 (04.04.2003) US

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US): **H. LUNDBECK A/S** [DK/DK]; Ottilievej 9, DK-2500 Valby-Copenhagen (DK). **BANG-ANDERSEN, Benny** [DK/DK]; Lillegrund 33, DK-2300 København S (DK).

(72) Inventors; and

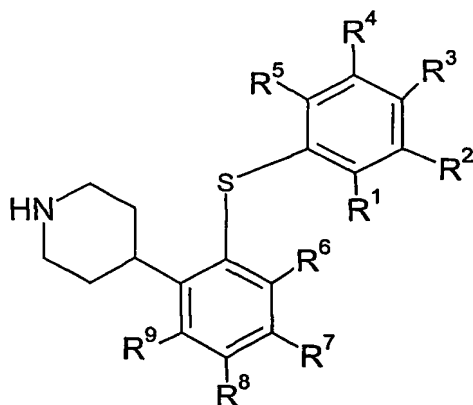
(75) Inventors/Applicants (for US only): **PÜSCHL, Ask** [DK/DK]; Aksel Møllers Have 2, 4 th, DK-2000 Frederiksberg (DK). **JØRGENSEN, Morten** [DK/DK]; Godtgemt 24, 1, -3, DK-2880 Bagsværd (DK). **RUHLAND, Thomas** [DE/DK]; Møllehusene 15, DK-4000

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 4-(2-PHENYLSULFANYL-PHENYL)-PIPERIDINE DERIVATIVES AS SEROTONIN REUPTAKE INHIBITORS



(I)

(57) Abstract: The invention provides compounds represented by the general formula (I) wherein the substituents are defined in the application. The compounds are useful in the treatment of an affective disorder, including depression, anxiety disorders including general anxiety disorder and panic disorder and obsessive compulsive disorder.